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Digital Recording Binoculars

DEV-5 | DEV-3 NEW

The world's first[1] digital binoculars with HD video recording capability

Sony introduces the world's first pair of digital recording binoculars capable of capturing full AVCHD™ (1920x1080) video in 2D or 3D. Both the DEV-5 and the DEV-3 have incredible 10x optical zoom for viewing or capturing video in 2D and 3D with the DEV-5 incorporating extended digital zoom up to 20x so you can get up close and personal without disturbing your subject. These are the only pair of binoculars that offer autofocus while zooming, allowing you to frame a shot and never miss memorable moments. Each model boasts Optical SteadyShot™ image stabilization, which reduces blur for crisp sharp images whether you're just observing or when capturing stunning video. These binoculars will change the way you see and remember life.

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1920x1080 Full HD 60i recording and 7.1 MP still image capture

Capturing 1920 x 1080 resolution lets you record your memories in exceptional Full High Definition quality. Capable of 60i recording and playback via HDMI® on a compatible HDTV (cable sold separately) provides stunning clarity and incredible detail of your memories. At the same time, you can also capture up to 7.1MP still images so you never miss that decisive moment[2].

1920 x 1080 Full HD 3D

AVCHD 3D / Progressive

Dual Back-illuminated "Exmor R" CMOS sensors for superb low-light video

Experience stunning low-light sensitivity with improved image clarity and drastically reduced grain with Sony's back-illuminated "Exmor R" CMOS sensor. Designed for compact cameras and camcorders, the "Exmor R" sensor relocates the photo diodes above the support circuitry, maximizing the light gathering area per pixel so you can shoot with better results in lower lighting conditions.

Geotagging with built-in GPS receiver

A built-in GPS receiver makes the DEV-5 an ideal choice for travelers. The receiver gives you the ability to view your current location on the viewfinder LCD map display, as well as "tag" your shooting locations. Tagged videos and still images can be reviewed and played back once downloaded to your PC using the supplied PMB (Picture Motion Browser) software[3].

GPS

Up to 20x Seamless Zoom in 3D mode with AutoFocus

Enjoy high magnification of up to 20x total zoom in 3D mode with the DEV-5 (or up to 10x optical zoom with the DEV-3). Both models offer seamless zoom from 0.9x to maximum magnification so users will find it easy to frame their subjects. With Autofocus, the subject will remain sharp in view through zooming unlike conventional zooming binoculars. And, unlike conventional binoculars, the DEV-3 and DVE-5 also focus on subjects as close as 0.39" (1cm) when recording in 2D, and as close as 31.5" (80cm) when recording in 3D.

Ergonomic and Functional Design

These binoculars have been designed for the end-user in mind, with a grip block for optimized comfortable, fatigue-free viewing and shooting, dual record buttons and a manual dial for focus control. With the ability to view your subject and instantaneously record video and/or still photos with the same device you will lighten your load.

Long recording capability and Battery Display

Enjoy your surroundings with ease of mind knowing that, with your supplied NP-FV70 rechargeable battery pack, you can capture up to 2 hours and 35 minutes of 2D recording on a single charge[4]. Remaining battery time is displayed in minutes on viewfinder LCD, so you'll always be able to keep track of how much recording time is left.

Optical SteadyShot™ image stabilization w/ Active Mode

Optical SteadyShot™ image stabilization with Active Mode compensates for greater degrees of camera shake to deliver stunningly smooth images, whether you're simply observing through these unique binoculars or shooting in Full HD 3D or 2D video. Now you can capture life smoothly as it happens while walking and zooming in from wide to telephoto and back.

Easy to find, Never lose the subject.

HDMI

DEV-5 | DEV-3 specifications.

Imaging Sensor	
Imaging Sensor	2x 1/4" (4.5mm) back-illuminated "Exmor R" CMOS Sensor
Pixel Gross	Approx. 4200K pixels(2D) / 2x Approx. 4200K pixels(3D)

Recording	
Media Type	No internal memory
	Memory Stick PRO Duo ™ (Mark 2)
	Memory Stick PRO-HG Duo™
	SD/SDHC/SDXC Memory Card(Class 4 or Higher)
Still Image Mode	3D Still Image: Not available/2D Still Image:JPEG
Still Image Max Effective	7.1 megapixels
Still Image Size(Photo Mode)	7.1 megapixels (4:3) (3072x2304)
	5.3 megapixels (16:9) (3072x1728)
	1.9 megapixels (4:3) (1600x1200)
	307K pixels (4:3) (640x480)
Video Format	2D HD: MPEG-4 AVC/H.264 AVCHD format Ver.2.0 compatible
	3D HD: MPEG-4 MVC/H.264 AVCHD format Ver.2.0 compatible
Video Mode (Resolution)	2D HD: 1920x1080/60p, (PS), 1920x1080/60i, (FX,FH), 1440x1080/60i, (HQ,LP)
	3D HD: 2x 1920x1080/60i
Movie Recording Rate (Average Bit Rate/VBR)	2D HD PS: Approx. 28Mbps/FX: Approx. 24Mbps/FH: Approx. 17Mbps/ HQ: Approx. 9Mbps/LP: Approx. 5Mbps
	3D HD 3D: Approx. 28Mbps
Recording and Playback Times (32GB Memory Card), sold separately (2ch)	2D HD PS: Approx. 2h30m
	2D HD FX: Approx. 3h00m
	2D HD FH: Approx. 4h05m
	2D HD HQ: Approx. 7h20m
	2D HD LP: Approx. 12h50m
	3D HD 3D: Approx. 2h30m
Audio Format	Dolby Digital® 2ch Stereo
Microphone/Speaker	Built-in Microphone / Monaural

Optics/Lens	*Resolution is reduced at zoomed magnifications.
Lens Type	G Lens
Aperture	F1.8 - F3.4
Magnification (DEV-5) (Movie Mode)	x0.9 - x10(2D:Digital zoom is OFF) / x0.9 - x20(2D:Digital zoom is ON) / x0.5 - x5.4(3D)
Magnification (DEV-5) (Photo Mode)*	x0.5 - x20 (16:9) / x0.3 - x15 (4:3)
Magnification (DEV-3) (Movie Mode)	x0.9 - x10(2D) / x0.5 - x5.4(3D)
Magnification (DEV-3) (Photo Mode)*	x0.5 - x10 (16:9) / x0.39 - x7.5 (4:3)
Minimum Focus Distance	Movie Mode 2D: Approx. 0.39" (Wide) / Approx. 31.5" (Tele) 3D: Approx. 31.5" (Wide) / Approx. 24.6' (Tele)
	Photo Mode Approx. 0.39" (Wide) / Approx. 31.5" (Tele) / Approx. 9.84" (Tele Macro)

Viewfinder	
Type	2x 0.45 inch(1.1cm) Wide (16:9) 1,226,880 dots (852x3[RGB]x480)
Diopter Adjustment	Yes (-3.5 - +3.5)
Eye relief	14.3mm
Apparent field of view (diagonal dimension)	35.6°(16:9)
Interpupillary distance adjust	2.16" - 2.95"
Brightness Control	Yes (5 steps)

Exposure System	
Minimum Illumination	Standard:11 lux (1/60 Shutter Speed:60i)

Convenience Features	
Multiple Language Display	Japanese, English, Simplified English, Traditional Chinese, Simplified Chinese, French, Italian, German, Spanish, Dutch, Russian, Romanian, Portugese, Greek, Arabic, Persian, Thai, Brazilian Portugese, Canadian French, Latin American Spanish, Korean, Turkish, Polish, Czech, Hungarian, Indonesian, Malay

Advanced Features	
Image Stabilization	Optical SteadyShot™ image stabilization w/ Active mode (Wide to Tele(2D) / wide(3D))

Interface	
Memory Card Slot	Memory Stick PRO Duo™ and SD/SDHC/SDXC compatible
STD Output	Composite Video Out(A/V connecting cable(supplied))
	Component Video Out(Component A/V cable(sold separately))
	S Video Out(A/V connectiong cable with S Video (sold separately))
HD Output	HDMI Out(mini), sold separately
	Component Video Out(Component A/V cable(sold separately))
3D HD Output	HDMI Out(mini), sold separately
USB Port(s)	TypeA, mini-AB/USB2.0 Hi-speed (mass-storage/MTP)
Headphone Jack	Stereo Minijack
Microphone Input	Stereo Minijack
DC IN	Yes
A/V Remote Terminal	Video/S Video/Audio/Component Out/Remote

Weights and Measurements	
Dimensions (WxHxD) (Body only including protrusion)	Approx. 8.63 x 6.10 x 3.47 in. (219 x 155 x 88 mm)
Dimensions (WxHxD) (Lens cover,Large Eyecup and protrusion)	Approx. 10.63 x 6.54 x 4.73 in. (270 x 166 x 120 mm)
Weight (Body only)	Approx. 2.65 lb 42.3 oz (1.2 kg)
Weight (Including Battery, Lens Cover, Large Eyecup and Memory Stick PRO Duo)	Approx. 2.87 lb 45.9 oz (1.3 kg) (NP-FV70 as supplied battery)
	Approx. 3.09 lb 49.4 oz (1.4 kg) (NP-FV100 as sold separately)

Power	
Battery Type	InfoLITHIUM® with AccuPower™ Meter System (V Series)
Power Consumption in recording	2D HD: 4.2W (FX)
	3D HD: 4.8W
Power Requirements	6.8V (battery pack); 8.4V (AC Adaptor)
Recording time(2D)[5]	Approx. 3h05m NP-FV70
	Approx. 6h10m NP-FV100
Recording time(3D)[5]	Approx. 2h40m NP-FV70
	Approx. 5h20m NP-FV100
Playback time(2D)[5]	Approx. 4h50m NP-FV70
	Approx. 9h40m NP-FV100
Playback time(3D)[5]	Approx. 4h20m NP-FV70
	Approx. 8h35m NP-FV100
	*With Fully charged Battery

In the Box	
Main Supplied Accessory (DEV-5)	Rechargeable Battery Pack(NP-FV70) (1)
	AC adaptor/Charger AC-L200C(D) (1)
	Power Cord (1)
	Large Eyecup (2)
	Lens Cover (1)
	Finder Cap (1)
	Neck Strap (1)
	Carrying Case (1)
	A/V Connecting Cable (1)
	USB Cable (1)
	CD-ROM(Video Camera Application Software) (1)
	Operating Guide (1)
Main Supplied Accessory (DEV-3)	Rechargeable Battery Pack(NP-FV70) (1)
	AC adaptor/Charger AC-L200C(D) (1)
	Power Cord (1)
	Neck Strap (1)
	A/V Connecting Cable (1)
	USB Cable (1)
	CD-ROM(Video Camera Application Software) (1)
	Operating Guide (1)

1. Based on AVCHD recording capability at the time of announcement (August 19 2011). 2. Still image size may be lower resolution when captured in movie mode. 3. Files compatible with iMovie® '09 or later on Mac. Software not compatible with Mac OS® X. 4. Actual performance varies based on settings, environmental conditions, and usage. Battery capacity decreases over time and use. 5. Actual performance varies based on settings, environmental conditions, and usage. Battery capacity decreases over time and use.

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